



# UNITED STATES PATENT AND TRADEMARK OFFICE

YW  
UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/511,469	02/23/2000	Shree K Nayar	A32708-070050.1125	3911
21003	7590	04/07/2005	EXAMINER	
BAKER & BOTT 30 ROCKEFELLER PLAZA NEW YORK, NY 10112			YODER III, CRISS S	
ART UNIT		PAPER NUMBER		
		2612		

DATE MAILED: 04/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)
	09/511,469	NAYAR ET AL.
	Examiner	Art Unit
	Chriss S. Yoder, III	2612

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

1)  Responsive to communication(s) filed on 14 October 2004.

2a)  This action is FINAL.                            2b)  This action is non-final.

3)  Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*; 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

4)  Claim(s) 1-172 is/are pending in the application.  
4a) Of the above claim(s) 1-165 is/are withdrawn from consideration.

5)  Claim(s) \_\_\_\_\_ is/are allowed.

6)  Claim(s) \_\_\_\_\_ is/are rejected.

7)  Claim(s) 166-172 is/are objected to.

8)  Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

9)  The specification is objected to by the Examiner.

10)  The drawing(s) filed on 23 February 2000 is/are: a)  accepted or b)  objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12)  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a)  All    b)  Some \* c)  None of:  
1.  Certified copies of the priority documents have been received.  
2.  Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3.  Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1)  Notice of References Cited (PTO-892)  
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948)  
3)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 04/02/01.

4)  Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_ .

5)  Notice of Informal Patent Application (PTO-152)

6)  Other: \_\_\_\_ .

**DETAILED ACTION**

***Election/Restrictions***

Applicant's election of claims 166-172 in the reply filed on October 14, 2004 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

***Allowable Subject Matter***

Claims 166-172 are allowed as understood by the examiner.

The following is an examiner's statement of reasons for allowance:

As for claim 166, the prior art does not teach or fairly suggest the use of an image sensing device having a memory for storing the sensitivity of each pixel, using the inverse of the stored sensitivity data to compensate the image, and creating an output image using an on-grid brightness generator to create an on-grid image from the previously compensated image.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### ***Conclusion***

This application is in condition for allowance except for the following formal matters:

#### *Claim Objections*

Claims 166 and 170 are objected to because of the following informalities:

Claim 166 recites the limitation "deriving from the captured image brightness values in the capture image memory" on page 175, line 35. However, the examiner points out the specification contradicts this on page 79, line 12; "interpolating the *compensated* captured image brightness values." The examiner believes that the claim should read, "deriving from the compensated captured image brightness values in the compensated on-grid brightness value memory," and will be examined as understood by the examiner at the time of examination.

Claim 170 recites the limitation "deriving from the captured image brightness values in the capture image memory" on page 176, lines 2-3. However, the examiner points out the specification contradicts this on page 79, line 12, "interpolating the *compensated* captured image brightness values." The examiner believes that the claim should read, "deriving from the compensated captured image brightness values in the compensated on-grid brightness memory," and will be examined as understood by the examiner at the time of examination.

Appropriate correction is required.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US006864916B1: note the use of an imaging device that uses a low dynamic range sensor to pick up high dynamic range images.

US005289286A: note the use of correcting the image sensitivity in an image sensor.

US005331420A: note the use of a pixel non-uniformity correction device.

US005789737A: note that each pixel has different sensitivity.

Prosecution on the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

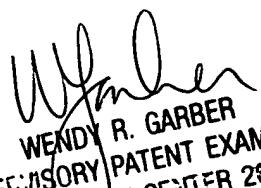
A shortened statutory period for reply to this action is set to expire **TWO MONTHS** from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chriss S. Yoder, III whose telephone number is (571) 272-7323. The examiner can normally be reached on M-F: 8 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wendy Garber can be reached on (571) 272-7308. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CSY  
March 31, 2005

  
WENDY R. GARBER  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600